```
Sequence Listing could not be accepted due to errors.
See attached Validation Report.
If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).
Reviewer: Anne Corrigan
Timestamp: [year=2009; month=7; day=20; hr=17; min=3; sec=27; ms=356; ]
_____
Reviewer Comments:
<210> 11
<211> 320
<212> PRT
<213> Clostridium acetobutylicum
<220>
<221> MOD_RES
<222> (2)..(3)
<223> Variable amino acid
<400> 11
Lys Arg Xaa Xaa Ala Val Ile Leu Met Val Ala Val Ile Phe Thr Ile
 1
                5
                                 10
                                                   15
The above \langle 222 \rangle response is incorrect: "Xaa" is at locations (3)..(4).
<210> 13
<211> 51
<212> PRT
<213> Unknown Organism
<220>
<223> Description of Unknown Organism: RP-factor
```

<400> 13

C-terminal domain peptide

The above <213> response is invalid, per 1.823 of the Sequence Rules. The only valid responses are: the Genus species of the organism,

"Artificial Sequence", and "Unknown" (not "Unknown Organism");
"Artificial Sequence" and "Unknown" require explanation in the <220><223> section; please give the source of the genetic material. Same
error in Sequences 14-23.

Validated By CRFValidator v 1.0.3

Application No: 09445289 Version No: 10.0

Input Set:

Output Set:

Started: 2009-07-06 19:17:47.892

Finished: 2009-07-06 19:17:55.882

Elapsed: 0 hr(s) 0 min(s) 7 sec(s) 990 ms

Total Warnings: 23

Total Errors: 8

No. of SeqIDs Defined: 63

Actual SeqID Count: 63

Error code	Error Description
E 257	Invalid sequence data feature in <221> in SEQ ID (11)
E 341	'Xaa' position not defined SEQID (11) POS (4)
W 402	Undefined organism found in <213> in SEQ ID (13)
W 402	Undefined organism found in <213> in SEQ ID (14)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 402	Undefined organism found in <213> in SEQ ID (16)
W 402	Undefined organism found in <213> in SEQ ID (17)
W 402	Undefined organism found in <213> in SEQ ID (18)
W 402	Undefined organism found in <213> in SEQ ID (19)
W 402	Undefined organism found in <213> in SEQ ID (20)
W 402	Undefined organism found in <213> in SEQ ID (21)
W 402	Undefined organism found in <213> in SEQ ID (22)
W 402	Undefined organism found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (37)
E 257	Invalid sequence data feature in <221> in SEQ ID (38)
E 257	Invalid sequence data feature in <221> in SEQ ID (38)
W 213	Artificial or Unknown found in <213> in SEQ ID (39)
W 213	Artificial or Unknown found in <213> in SEQ ID (40)
W 213	Artificial or Unknown found in <213> in SEQ ID (41)
W 213	Artificial or Unknown found in <213> in SEQ ID (46)

Input Set:

Output Set:

Started: 2009-07-06 19:17:47.892 **Finished:** 2009-07-06 19:17:55.882

Elapsed: 0 hr(s) 0 min(s) 7 sec(s) 990 ms

Total Warnings: 23

Total Errors: 8

No. of SeqIDs Defined: 63

Actual SeqID Count: 63

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (47)
W 213	Artificial or Unknown found in <213> in SEQ ID (48)
W 213	Artificial or Unknown found in <213> in SEQ ID (49)
W 213	Artificial or Unknown found in <213> in SEQ ID (50)
W 213	Artificial or Unknown found in <213> in SEQ ID (51)
W 213	Artificial or Unknown found in <213> in SEQ ID (52)
W 213	Artificial or Unknown found in <213> in SEQ ID (53)
E 257	Invalid sequence data feature in <221> in SEQ ID (60)
E 257	Invalid sequence data feature in <221> in SEQ ID (61)
E 257	Invalid sequence data feature in <221> in SEQ ID (61)
E 257	Invalid sequence data feature in <221> in SEQ ID (62)

SEQUENCE LISTING

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<110> MUKAMOLOVA, GALINA V.
     KAPRELYANTS, ARSENY S.
      YOUNG, DANIELLE I.
      KELL, DOUGLAS B.
      YOUNG, MICHAEL
<120> BACTERIAL PHEROMONES AND USES THEREFOR
<130> 49946-60261
<140> 09445289
<141> 2000-05-11
<150> PCT/GB98/01619
<151> 1998-06-03
<150> GB 9711389.8
<151> 1997-06-04
<150> GB 9811221.2
<151> 1998-05-27
<160> 63
<170> PatentIn Ver. 3.3
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<211> 362
<212> PRT
<213> Mycobacterium tuberculosis
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                                     10
Gly Gly Tyr Ala Val Ala Ala Cys Lys Thr Val Thr Leu Thr Val Asp
             20
                                 25
Gly Thr Ala Met Arg Val Thr Thr Met Lys Ser Arg Val Ile Asp Ile
         35
                            40
Val Glu Glu Asn Gly Phe Ser Val Asp Asp Asp Asp Leu Tyr Pro
     50
Ala Ala Gly Val Gln Val His Asp Ala Asp Thr Ile Val Leu Arg Arg
                                        75
65
                     70
Ser Arg Pro Leu Gln Ile Ser Leu Asp Gly His Asp Ala Lys Gln Val
                 85
                                     90
Trp Thr Thr Ala Ser Thr Val Asp Glu Ala Leu Ala Gln Leu Ala Met
            100
                                105
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Thr Asp Thr Ala Pro Ala Ala Ala Ser Arg Ala Ser Arg Val Pro Leu

115 120 125

Ser Gly Met Ala Leu Pro Val Val Ser Ala Lys Thr Val Gln Leu Asn 130 135 140

Gly Leu Leu Ser Ala Ala Gly Val Pro Leu Leu Gln Ser Asp His Val
165 170 175

Val Pro Ala Ala Thr Ala Pro Ile Val Glu Gly Met Gln Ile Gln Val 180 185 190

Thr Arg Asn Arg Ile Lys Lys Val Thr Glu Arg Leu Pro Leu Pro Pro 195 200 205

Asn Ala Arg Arg Val Glu Asp Pro Glu Met Asn Met Ser Arg Glu Val 210 215 220

Val Glu Asp Pro Gly Val Pro Gly Thr Gln Asp Val Thr Phe Ala Val 225 230 235 240

Ala Glu Val Asn Gly Val Glu Thr Gly Arg Leu Pro Val Ala Asn Val
245 250 255

Val Val Thr Pro Ala His Glu Ala Val Val Arg Val Gly Thr Lys Pro 260 265 270

Gly Thr Glu Val Pro Pro Val Ile Asp Gly Ser Ile Trp Asp Ala Ile 275 280 285

Ala Gly Cys Glu Ala Gly Gly Asn Trp Ala Ile Asn Thr Gly Asn Gly 290 295 300

Tyr Tyr Gly Gly Val Gln Phe Asp Gln Gly Thr Trp Glu Ala Asn Gly 305 310 315 320

Gly Leu Arg Tyr Ala Pro Arg Ala Asp Leu Ala Thr Arg Glu Glu Gln
325 330 335

Ile Ala Val Ala Glu Val Thr Arg Leu Arg Gln Gly Trp Gly Ala Trp \$340\$ \$345\$ \$350

Pro Val Cys Ala Ala Arg Ala Gly Ala Arg 355 360

<210> 2

<211> 188

<212> PRT

<213> Mycobacterium tuberculosis

<400> 2

Met Pro Val Gly Trp Leu Trp Arg Ala Arg Thr Ala Lys Gly Thr Thr

1 5 10 15

Leu	Lys	Asn	Ala 20	Arg	Thr	Thr	Leu	Ile 25	Ala	Ala	Ala	Ile	Ala 30	Gly	Thr
Leu	Val	Thr 35	Thr	Ser	Pro	Ala	Gly 40	Ile	Ala	Asn	Ala	Asp 45	Asp	Ala	Gly
Leu	Asp 50	Pro	Asn	Ala	Ala	Ala 55	Gly	Pro	Asp	Ala	Val 60	Gly	Phe	Asp	Pro
Asn 65	Leu	Pro	Pro	Ala	Pro 70	Asp	Ala	Ala	Pro	Val 75	Asp	Thr	Pro	Pro	Ala 80
Pro	Glu	Asp	Ala	Gly 85	Phe	Asp	Pro	Asn	Leu 90	Pro	Pro	Pro	Leu	Ala 95	Pro
Asp	Phe	Leu	Ser 100	Pro	Pro	Ala	Glu	Glu 105	Ala	Pro	Pro	Val	Pro 110	Val	Ala
Tyr	Ser	Val 115	Asn	Trp	Asp	Ala	Ile 120	Ala	Gln	Cys	Glu	Ser 125	Gly	Gly	Asn
Trp	Ser 130	Ile	Asn	Thr	Gly	Asn 135	Gly	Tyr	Tyr	Gly	Gly 140	Leu	Arg	Phe	Thr
Ala 145	Gly	Thr	Trp	Arg	Ala 150	Asn	Gly	Gly	Ser	Gly 155	Ser	Ala	Ala	Asn	Ala 160
Ser	Arg	Glu	Glu	Gln 165	Ile	Arg	Val	Ala	Glu 170	Asn	Val	Leu	Arg	Ser 175	Gln
Gly	Ile	Arg	Ala 180	Trp	Pro	Val	Суз	Gly 185	Arg	Arg	Gly				
<213 <213	0> 3 L> 1 [*] 2> PE 3> My		actei	cium	lepi	rae									
<400					_										
		Glu	Ser	Tyr 5	Arg	Lys	Leu	Thr	Thr 10	Ser	Ser	Ile	Ile	Val 15	Ala
Lys	Ile	Thr	Phe 20	Thr	Gly	Ala	Met	Leu 25	Asp	Gly	Ser	Ile	Ala 30	Leu	Ala
Gly	Gln	Ala 35	Ser	Pro	Ala	Thr	Asp 40	Ser	Glu	Trp	Asp	Gln 45	Val	Ala	Arg
Cys	Glu 50	Ser	Gly	Gly	Asn	Trp 55	Ser	Ile	Asn	Thr	Gly 60	Asn	Gly	Tyr	Leu
Gly 65	Gly	Leu	Gln	Phe	Ser 70	Gln	Gly	Thr	Trp	Ala 75	Ser	His	Gly	Gly	Gly 80
Glu	Tyr	Ala	Pro	Ser	Ala	Gln	Leu	Ala	Thr	Arg	Glu	Gln	Gln	Ile	Ala

Val Ala Glu	Arg Val	Leu Ala	Thr Gln	=	Gly Ala	Trp Pro	Ala
Cys Gly His	Gly Leu	Ser Gly	Pro Ser	Leu Gln	Glu Val 125	Leu Pro	Ala
Gly Met Gly 130	Ala Pro	Trp Ile 135	_	Ala Pro	Ala Pro 140	Leu Ala	Pro
Pro Pro Pro 145	Ala Glu	Pro Ala 150	Pro Pro	Gln Pro 155	Pro Ala	Asp Asn	Phe 160
Pro Pro Thr	Pro Gly 165	Asp Val	Pro Ser	Pro Leu 170	Ala Arg	Pro	
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-							
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Lys Ile Ala	Phe Thr 20	Gly Ala	Val Leu 25		Gly Gly	Ile Ala 30	Met
Ala Ala Gln 35	Ala Thr	Ala Ala	Thr Asp	Gly Glu	Trp Asp	Gln Val	Ala
Arg Cys Glu 50	Ser Gly	Gly Asn 55	=	Ile Asn	Thr Gly	Asn Gly	Tyr
Leu Gly Gly 65	Leu Gln	Phe Thr 70	Gln Ser	Thr Trp	Ala Ala	His Gly	Gly 80
Gly Glu Phe	Ala Pro 85	Ser Ala	Gln Leu	Ala Ser 90	Arg Glu	Gln Gln 95	Ile
Ala Val Gly	Glu Arg 100	Val Leu	Ala Thr 105	_	Arg Gly	Ala Trp 110	Pro
Val Cys Gly 115	Arg Gly	Leu Ser	Asn Ala	Thr Pro	Arg Glu 125	Val Leu	Pro
Ala Ser Ala 130	Ala Met	Asp Ala 135		Asp Ala	Ala Ala 140	Val Asn	Gly
Glu Pro Ala 145	Pro Leu	Ala Pro 150	Pro Pro	Ala Asp 155	Pro Ala	Pro Pro	Val 160
Glu Leu Ala	Ala Asn 165	Asp Leu	Pro Ala	Pro Leu 170	Gly Glu	Pro Leu 175	Pro

Ala Ala Pro Ala Asp Pro Ala Pro Pro Ala Asp Leu Ala Pro Pro Ala

180 185 190

Pro Ala Asp Val Ala Pro Pro Val Glu Leu Ala Val Asn Asp Leu Pro 195 200 205

Ala Pro Leu Gly Glu Pro Leu Pro Ala Ala Pro Ala Asp Pro Ala Pro 210 215 220

Pro Ala Asp Leu Ala Pro Pro Ala Pro Ala Asp Leu Ala Pro Pro Val 245 250 255

Glu Leu Ala Val Asn Asp Leu Pro Ala Pro Leu Gly Glu Pro Leu Pro
260 265 270

Ala Ala Pro Ala Glu Leu Ala Pro Pro Ala Asp Leu Ala Pro Ala Ser 275 280 285

Ala Asp Leu Ala Pro Pro Ala Pro Ala Asp Leu Ala Pro Pro Ala Pro 290 295 300

Ala Glu Leu Ala Pro Pro Ala Pro Ala Asp Leu Ala Pro Pro Ala Ala 305 310 315 320

Val Asn Glu Gln Thr Ala Pro Gly Asp Gln Pro Ala Thr Ala Pro Gly
325 330 335

Gly Pro Val Gly Leu Ala Thr Asp Leu Glu Leu Pro Glu Pro Asp Pro 340 345 350

Gln Pro Ala Asp Ala Pro Pro Pro Gly Asp Val Thr Glu Ala Pro Ala 355 360 365

Glu Thr Pro Gln Val Ser Asn Ile Ala Tyr Thr Lys Lys Leu Trp Gln 370 375 380

Ala Ile Arg Ala Gln Asp Val Cys Gly Asn Asp Ala Leu Asp Ser Leu 385 390 395 400

Ala Gln Pro Tyr Val Ile Gly 405

<210> 5 <211> 155

<212> PRT

<213> Mycobacterium leprae

<400> 5

Met Pro Gly Glu Met Leu Asp Val Arg Lys Leu Cys Lys Leu Phe Val

1 5 10 15

Lys Ser Ala Val Val Ser Gly Ile Val Thr Ala Ser Met Ala Leu Ser
20 25 30

Thr Ser Thr	Gly Met	Ala As	n Ala 40	Val	Pro	Arg	Glu	Pro 45	Asn	Trp	Asp
Ala Val Ala	Gln Cys	Glu Se 5	_	Arg	Asn	Trp	Arg 60	Ala	Asn	Thr	Gly
Asn Gly Phe	Tyr Gly	Gly Le	u Gln	Phe	Lys	Pro 75	Thr	Ile	Trp	Ala	Arg 80
Tyr Gly Gly	Val Gly 85	Asn Pr	o Ala	Gly	Ala 90	Ser	Arg	Glu	Gln	Gln 95	Ile
Thr Val Ala .	Asn Arg 100	Val Le	u Ala	Asp 105	Gln	Gly	Leu	Asp	Ala 110	Trp	Pro
Lys Cys Gly . 115	Ala Ala	Ser As	p Leu 120	Pro	Ile	Thr	Leu	Trp 125	Ser	His	Pro
Ala Gln Gly	Val Lys	Gln Il 13		Asn	Asp	Ile	Ile 140	Gln	Met	Gly	Asp
Thr Thr Leu . 145	Ala Ala	Ile Al 150	a Leu	Asn	Gly	Leu 155					
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<213> Mycoba	cterium	tuberc	ulosi	S							
	cterium	tuberc	ulosi	s							
<213> Mycoba					Arg 10	Ser	Arg	Cys	Asn	Arg 15	His
<213> Mycoba <400> 6 Met His Pro	Leu Pro 5	Ala As	p His	Gly	10			_		15	
<213> Mycoba <400> 6 Met His Pro	Leu Pro 5 Pro Leu 20	Ala As Ser Le	p His u Ile	Gly Gly 25	10 Asn	Ile	Ser	Ala	Thr 30	15 Ser	Gly
<213> Mycoba <400> 6 Met His Pro 1 Pro Ile Ser	Leu Pro 5 Pro Leu 20 Ser Met	Ala As Ser Le	p His u Ile g Ile 40 r Ala	Gly Gly 25 Ala	10 Asn Lys	Ile Pro	Ser	Ala Ile 45	Thr 30 Lys	15 Ser	Gly
<213> Mycoba <400> 6 Met His Pro 1 Pro Ile Ser Asp Met Ser 35 Met Ala Ala	Leu Pro 5 Pro Leu 20 Ser Met	Ala As Ser Le Thr Ar Val Th	p His u Ile g Ile 40 r Ala	Gly Gly 25 Ala Ser	10 Asn Lys	Ile Pro Ser	Ser Leu Leu	Ala Ile 45 Ser	Thr 30 Lys Thr	15 Ser Ser	Gly Ala Val
<213> Mycoba <400> 6 Met His Pro 1 Pro Ile Ser Asp Met Ser 35 Met Ala Ala 50 Ala His Ala	Leu Pro 5 Pro Leu 20 Ser Met Gly Leu Gly Pro	Ala As Ser Le Thr Ar Val Th 5 Ser Pr 70	p His u Ile g Ile 40 r Ala 5	Gly 25 Ala Ser	10 Asn Lys Met	Ile Pro Ser Ala 75	Ser Leu Leu 60	Ala Ile 45 Ser	Thr 30 Lys Thr	15 Ser Ser Ala	Gly Ala Val Glu 80
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<213> Mycobal <400> 6 Met His Pro 1 Pro Ile Ser Asp Met Ser 35 Met Ala Ala 50 Ala His Ala 65 Ser Gly Gly Leu Gln Phe	Leu Pro 5 Pro Leu 20 Ser Met Gly Leu Gly Pro Asn Trp 85 Lys Pro 100	Ala As Ser Le Thr Ar Val Th 5 Ser Pr 70 Ala Al Ala Th	p His u Ile g Ile 40 r Ala 5 o Asn a Asn	Gly 25 Ala Ser Trp Thr Ala 105	Asn Lys Met Asp Gly 90 Ala	Ile Pro Ser Ala 75 Asn	Ser Leu Leu 60 Val Gly	Ala Ile 45 Ser Ala Lys	Thr 30 Lys Thr Gln Tyr Val	15 Ser Ser Ala Cys Gly 95 Gly	Gly Ala Val Glu 80 Gly Asn

<210> 7

<211> 154

<212> PRT

<213> Mycobacterium tuberculosis

<400> 7

Met Thr Pro Gly Leu Leu Thr Thr Ala Gly Ala Gly Arg Pro Arg Asp

1 5 10 15

Arg Cys Ala Arg Ile Val Cys Thr Val Phe Ile Glu Thr Ala Val Val $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30$

Ala Thr Met Phe Val Ala Leu Leu Gly Leu Ser Thr Ile Ser Ser Lys 35 40 45

Ala Asp Asp Ile Asp Trp Asp Ala Ile Ala Gln Cys Glu Ser Gly Gly 50 55 60

Asn Trp Ala Ala Asn Thr Gly Asn Gly Leu Tyr Gly Gly Leu Gln Ile 65 70 75 80

Ser Gln Ala Thr Trp Asp Ser Asn Gly Gly Val Gly Ser Pro Ala Ala 85 90 95

Ala Ser Pro Gln Gln Gln Ile Glu Val Ala Asp Asn Ile Met Lys Thr 100 105 110

Gln Gly Pro Gly Ala Trp Pro Lys Cys Ser Ser Cys Ser Gln Gly Asp 115 120 125

Ala Pro Leu Gly Ser Leu Thr His Ile Leu Thr Phe Leu Ala Ala Glu 130 135 140

Thr Gly Gly Cys Ser Gly Ser Arg Asp Asp 145 150

<210> 8

<211> 99

<212> PRT

<213> Streptomyces coelicolor

<400> 8

Ile Arg Thr Ala Ala Val Thr Leu Val Ala Ala Thr Ala Leu Gly Ala 1 5 10 15

Thr	Gly	Glu	Ala 20	Val	Ala	Ala	Pro	Ser 25	Ala	Pro	Leu	Arg	Thr 30	Asp	Trp
Asp	Ala	Ile 35	Ala	Ala	Cys	Glu	Ser 40	Ser	Gly	Asn	Trp	Gln 45	Ala	Asn	Thr
Gly	Asn 50	Gly	Tyr	Tyr	Gly	Gly 55	Leu	Gln	Phe	Ala	Arg 60	Ser	Ser	Trp	Ile
Ala 65	Ala	Gly	Gly	Leu	Lys 70	Tyr	Ala	Pro	Arg	Ala 75	Asp	Leu	Ala	Thr	Arg 80
Gly	Glu	Gln	Ile	Ala 85	Val	Ala	Glu	Arg	Leu 90	Ala	Arg	Leu	Gln	Gly 95	Met
Ser	Ala	Trp													
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Asn	Leu	Ser	Glu 20	Glu	Lys	Glu	Ala	Phe 25	Phe	Ile	Thr	Gln	Lys 30	Met	Lys
Lys	Leu	Phe 35	Ser	Val	Lys	Leu	Ser 40	Lys	Ser	Lys	Val	Ile 45	Leu	Val	Ala
Ala	Cys 50	Leu	Leu	Leu	Ala	Gly 55		Gly	Thr	Ala	Tyr 60	Ala	Ala	His	Glu
Leu 65	Thr	Lys	Gln	Ser	Val 70	Ser	Val	Ser	Ile	Asn 75	Gly	Lys	Lys	Lys	His 80
Ile	Arg	Thr	His	Ala 85	Asn	Thr	Val	Gly	Asp 90	Leu	Leu	Glu	Thr	Leu 95	Asp
Ile	Lys	Thr	Arg 100	Asp	Glu	Asp	Lys	Ile 105	Thr	Pro	Ala	Lys	Gln 110	Thr	Lys
Ile	Thr	Ala 115	Asp	Met	Asp	Val	Val 120	Tyr	Glu	Ala	Ala	Lys 125	Pro	Val	Lys
Leu	Thr 130	Ile	Asn	Gly	Glu	Glu 135	Lys	Thr	Leu	Trp	Ser 140	Thr	Ala	Lys	Thr
Val 145	Gly	Ala	Leu	Leu	Asp 150	Glu	Gln	Asp	Val	Asp 155	Val	Lys	Glu	Gln	Asp 160
Gln	Ile	Asp	Pro	Ala	Ile	Asp	Thr	Asp	Ile	Ser	Lys	Asp	Met	Lys	Ile

- Asn Ile Glu Pro Ala Phe Gln Val Thr Val Asn Asp Ala Gly Lys Gln 180 185 190
- Lys Lys Ile Trp Thr Thr Ser Thr Thr Val Ala Asp Phe Leu Lys Gln 195 200 205
- Gln Lys Met Asn Ile Lys Asp Glu Asp Lys Ile Lys Pro Ala Leu Asp 210 215 220
- Ala Lys Leu Thr Lys Gly Lys Ala Asp Ile Thr Ile Thr Arg Ile Glu 225 230 235 240
- Lys Val Thr Asp Val Val Glu Glu Lys Ile Ala Phe Asp Val Lys Lys $245\,$